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Fig.1 (Prior Art)

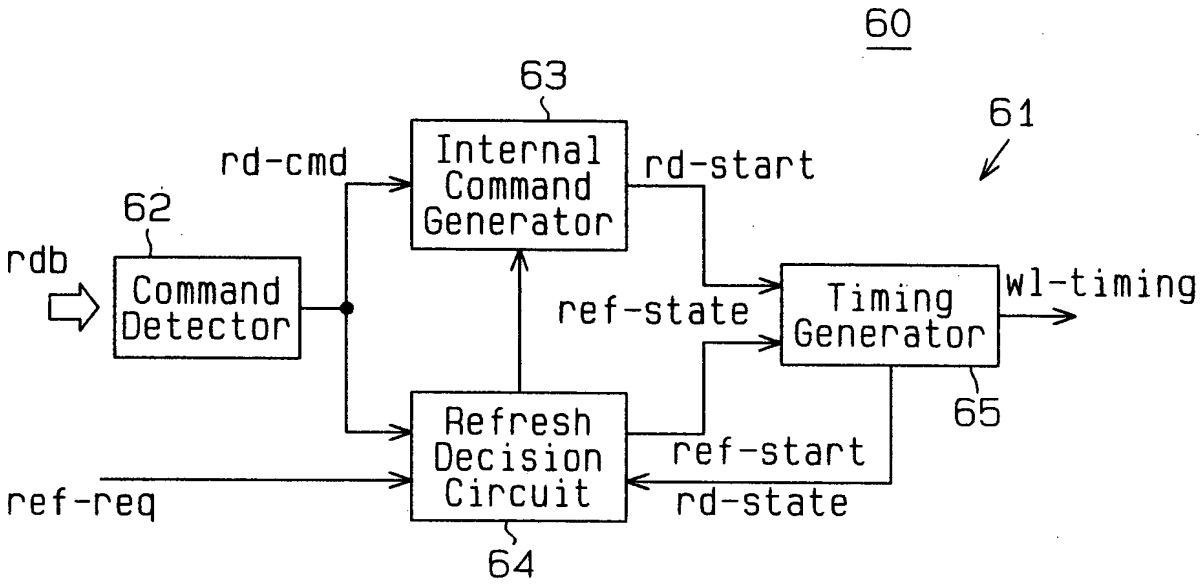

Fig.2(Prior Art)

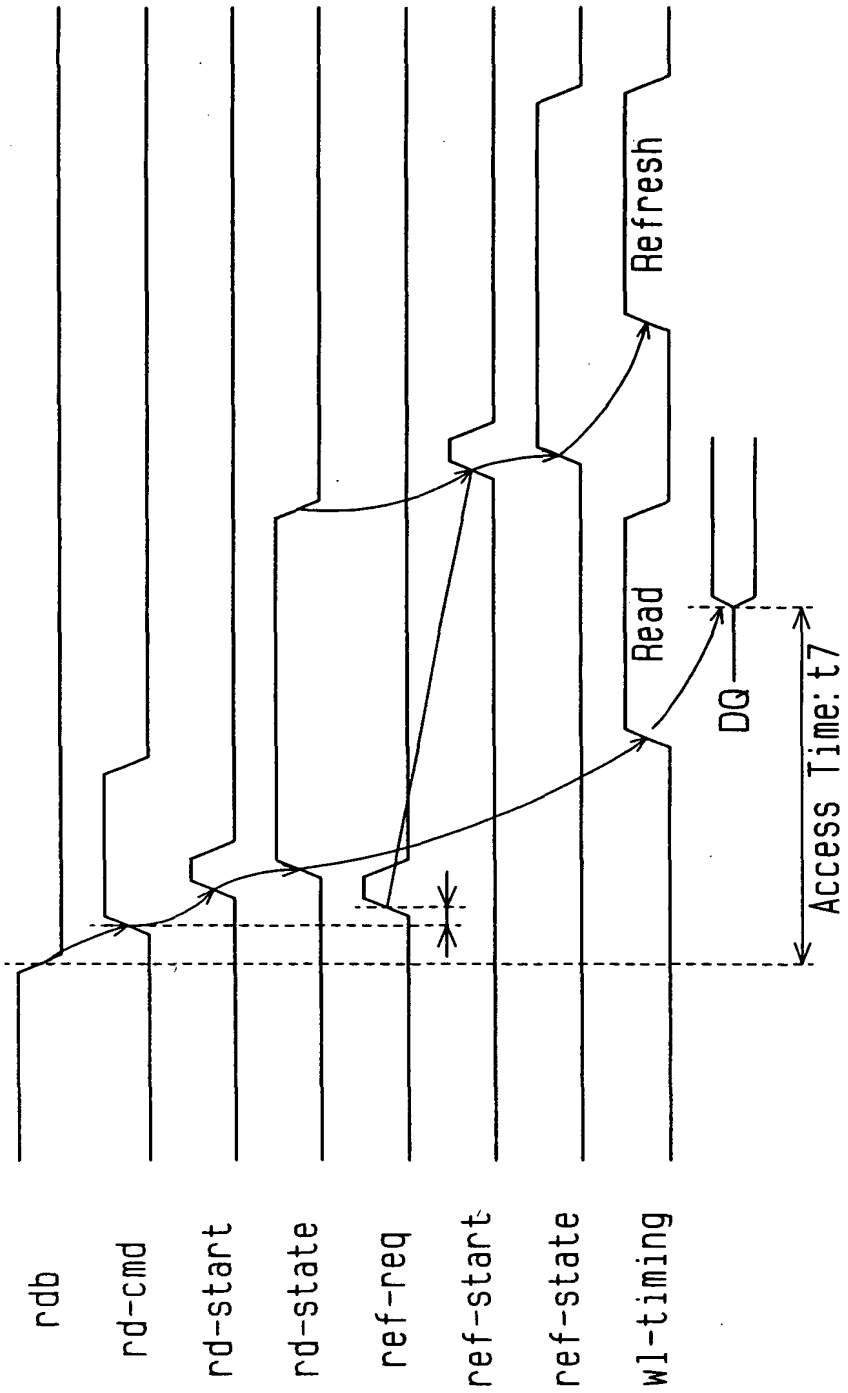

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Fig.3(Prior Art)

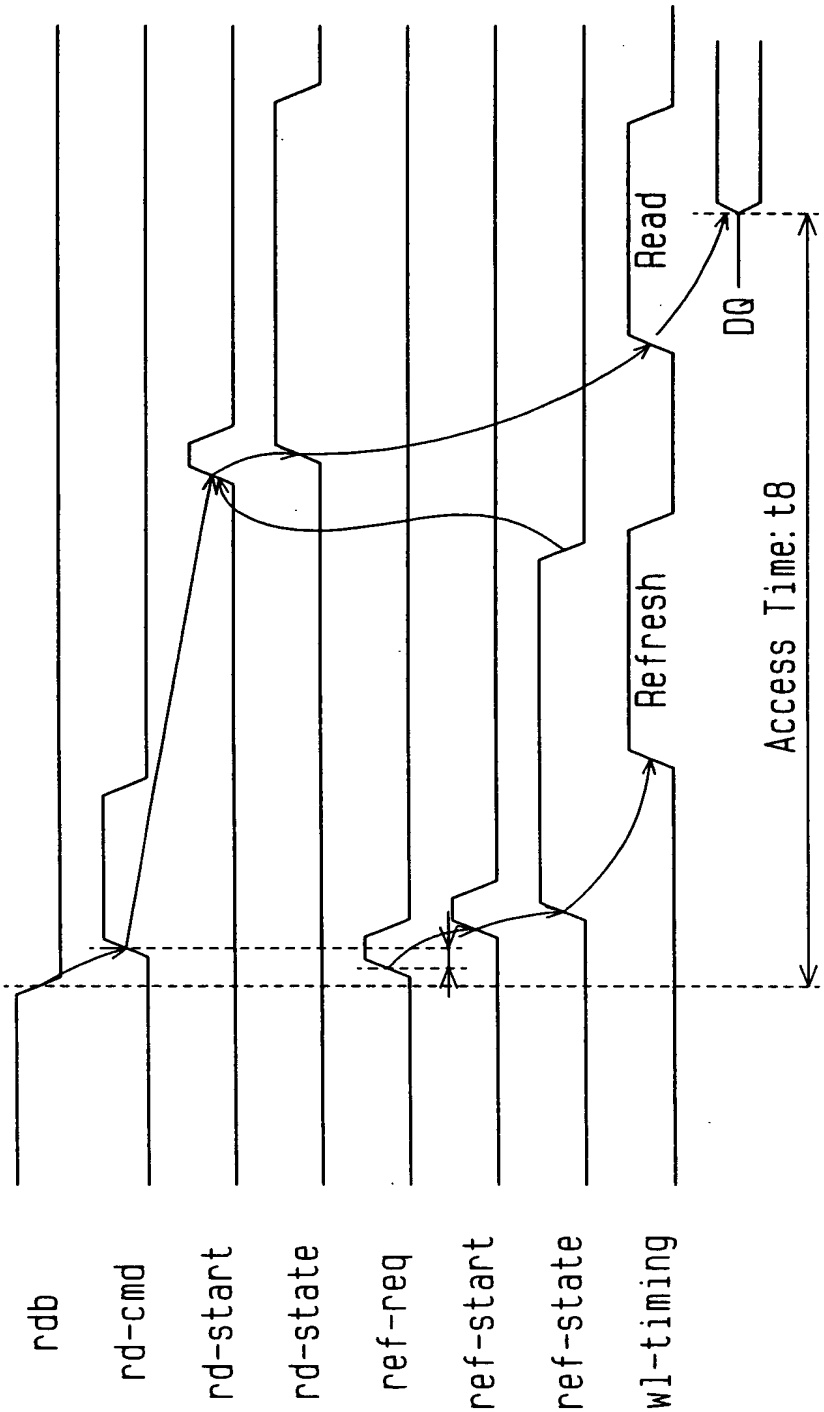

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Fig.4

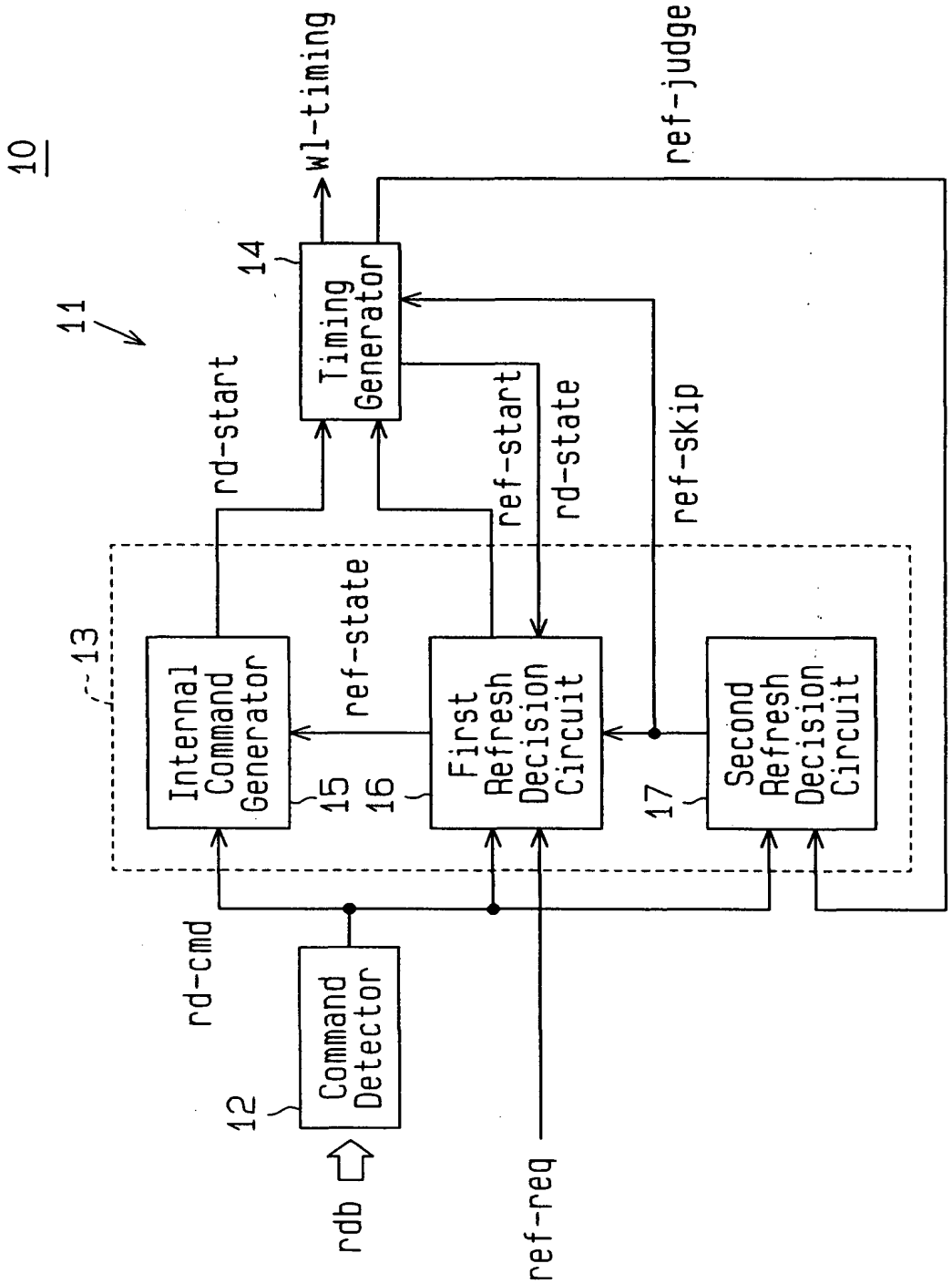

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Fig.5

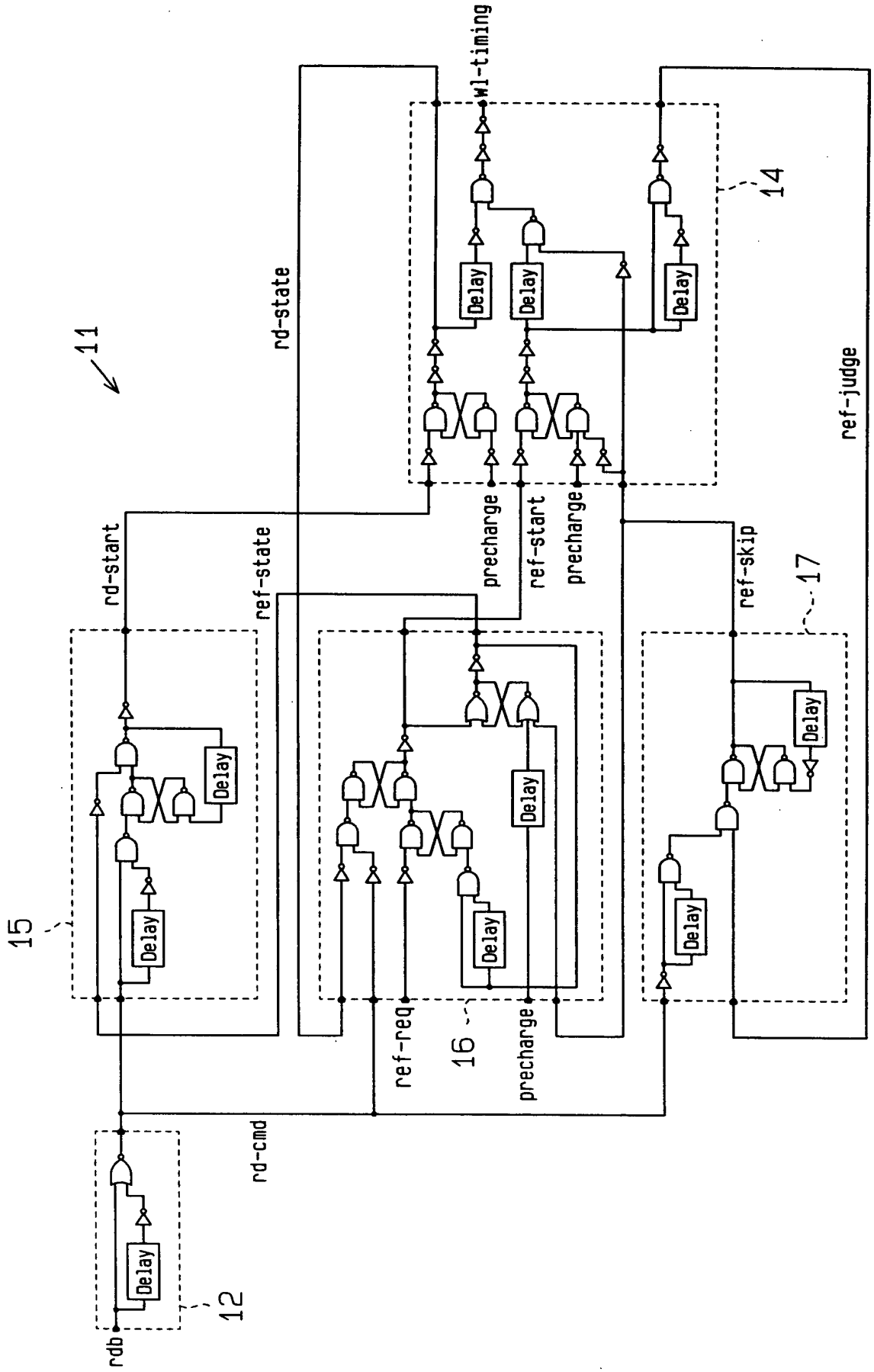

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Fig.6

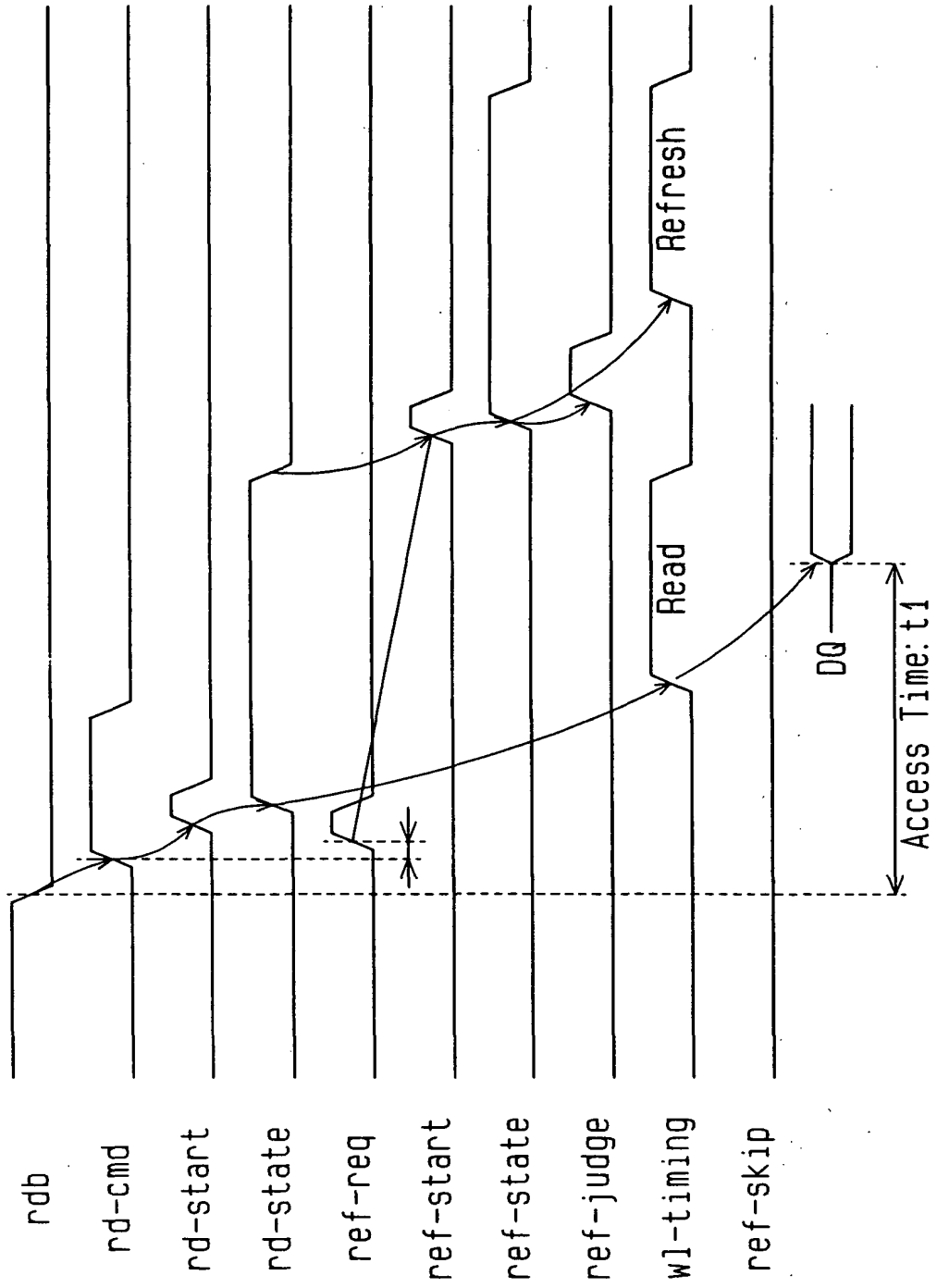

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Fig.7

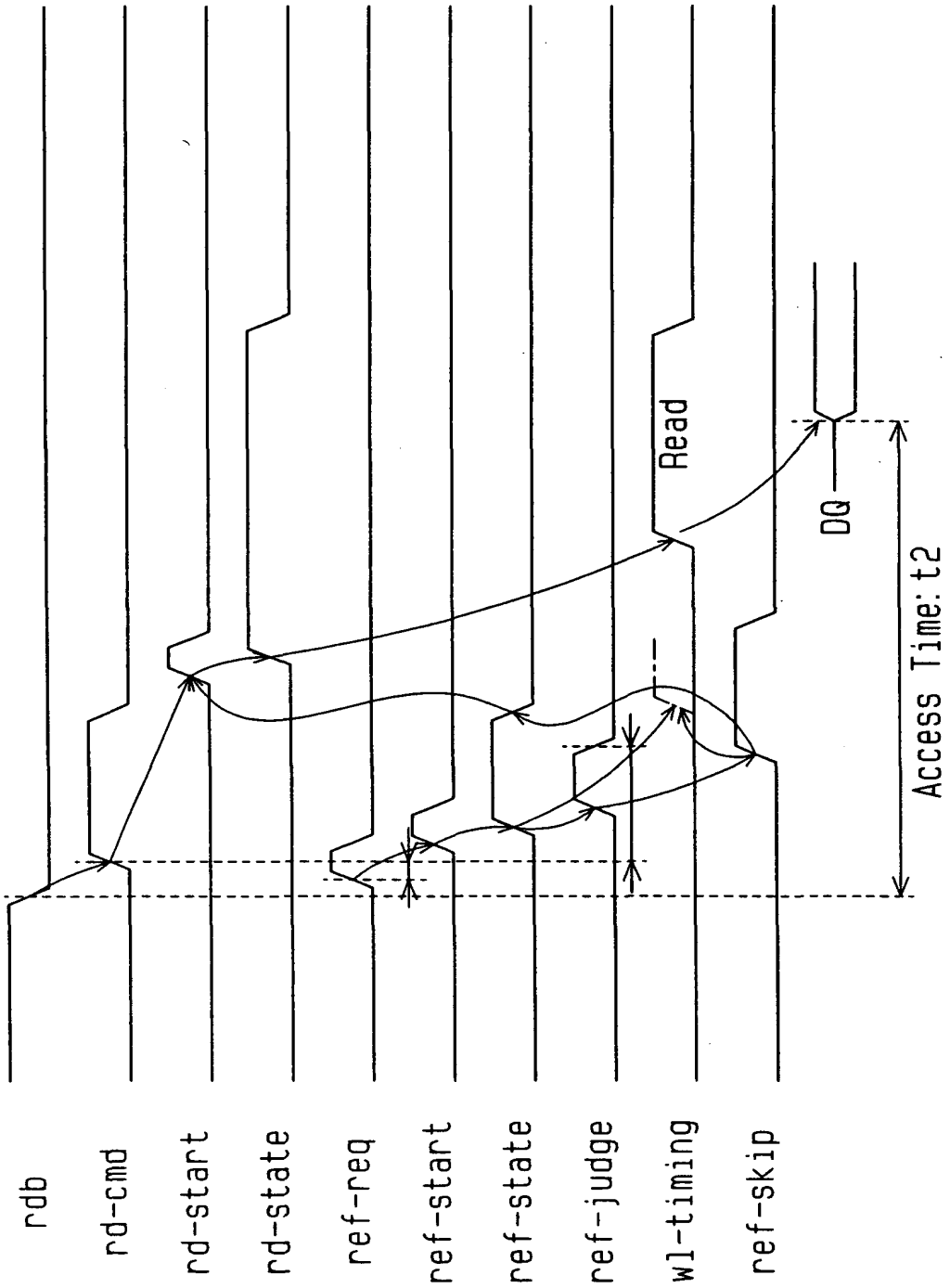
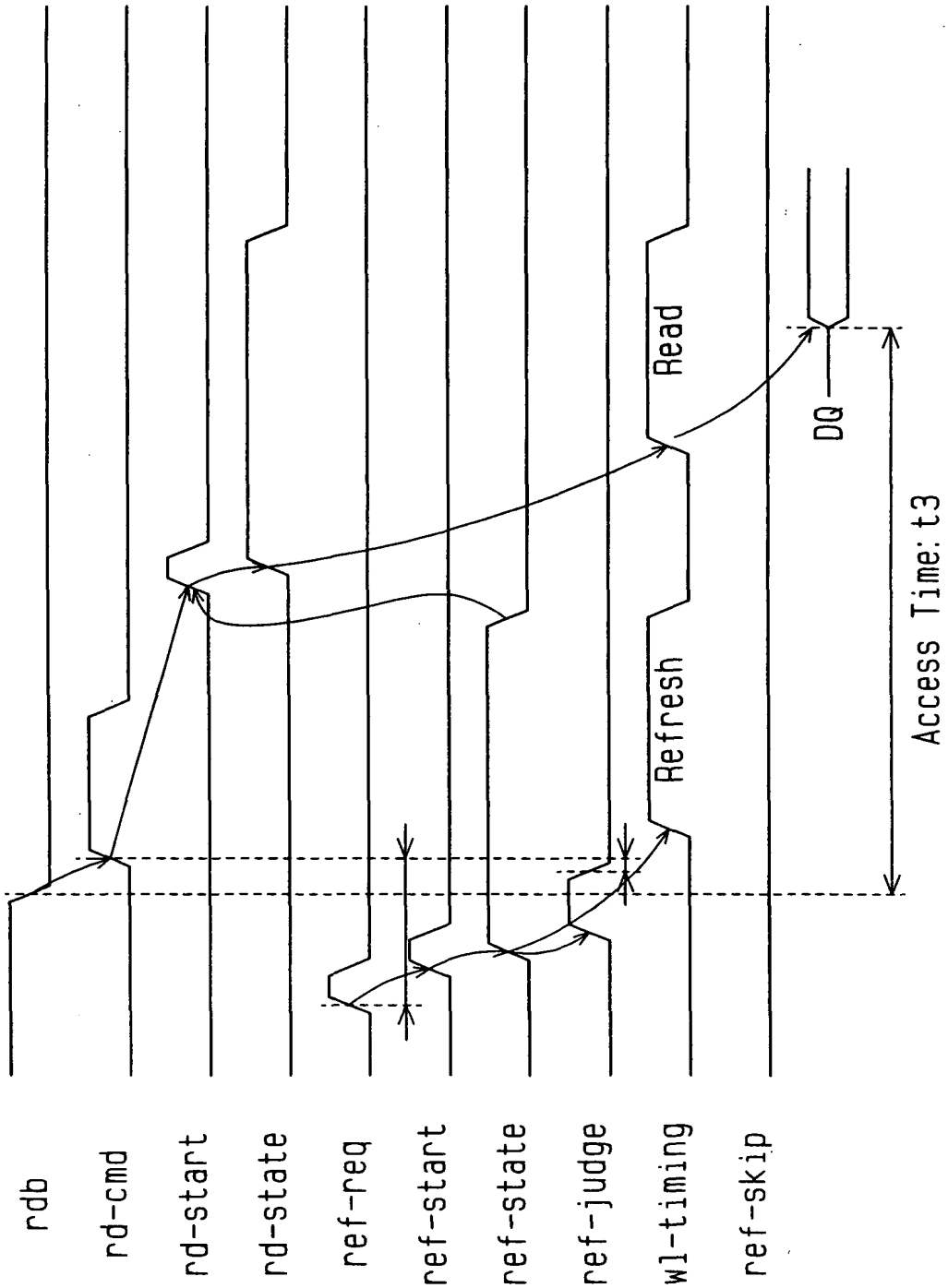


Fig.8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rd-cmd
rd-start
rd-state
ref-req
ref-start
ref-state
ref-judge
wl-timing
ref-skip
Refresh
Read
DQ
Access Time: t3

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Fig.9

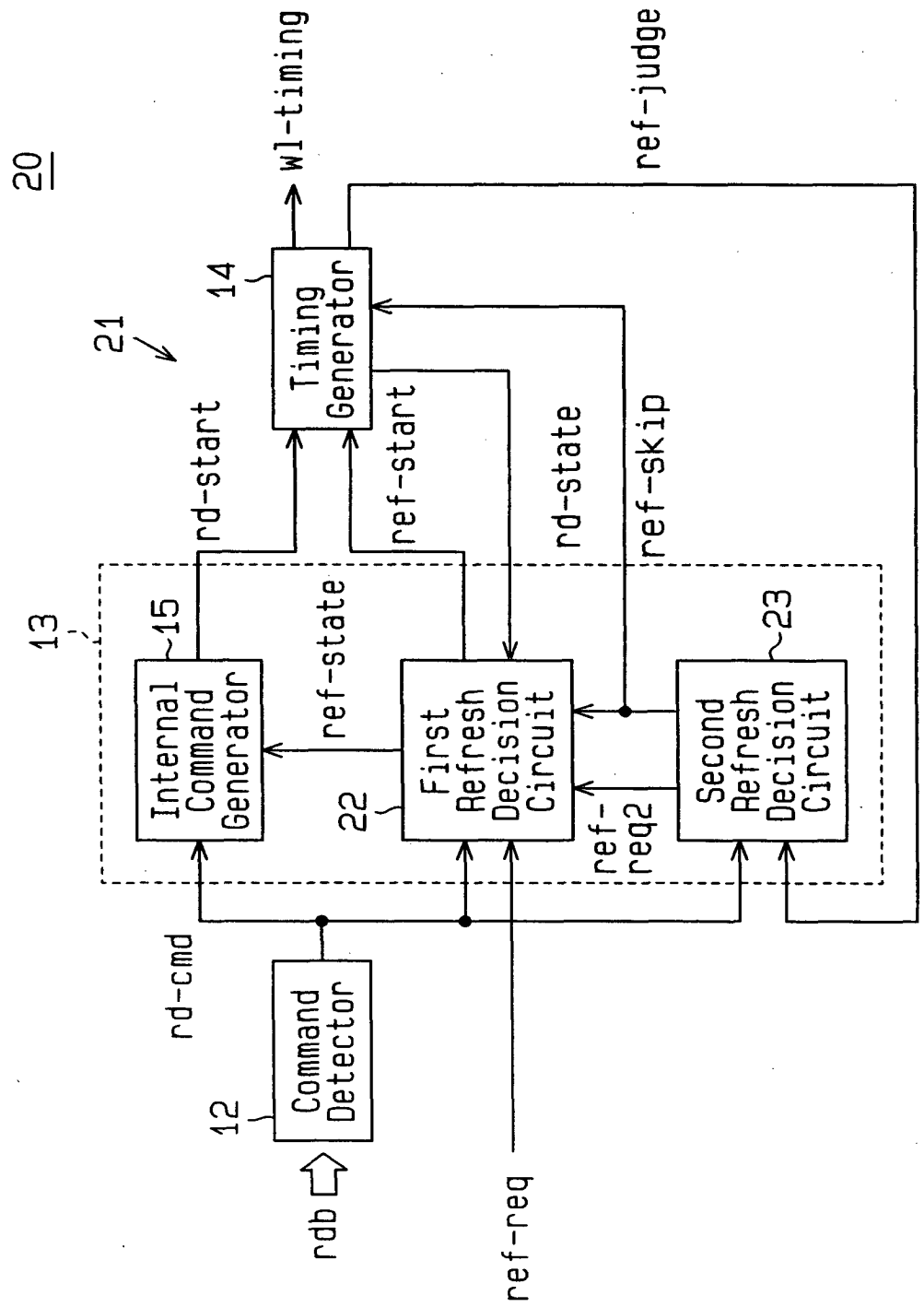

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Fig.10

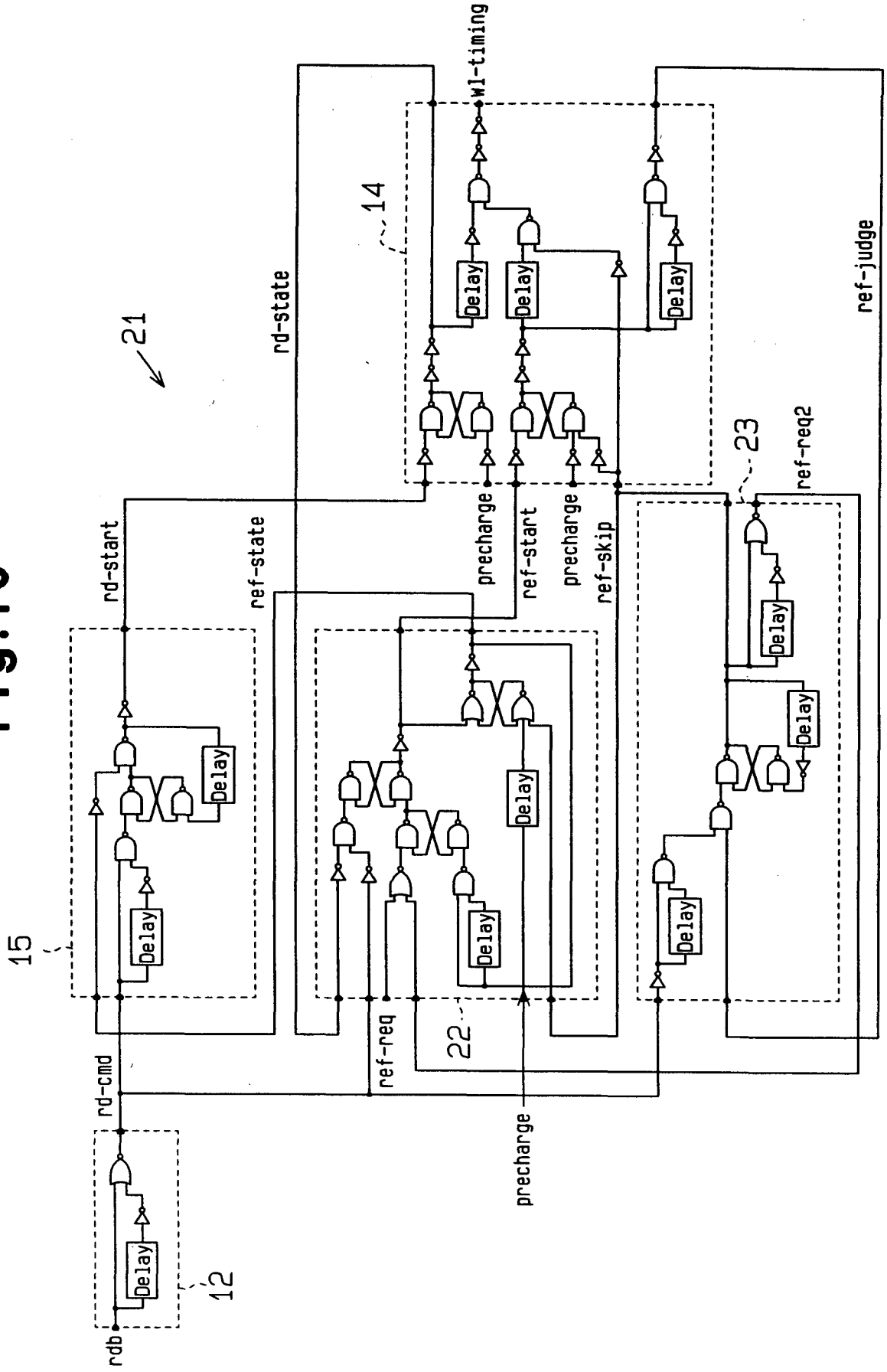

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Fig.11

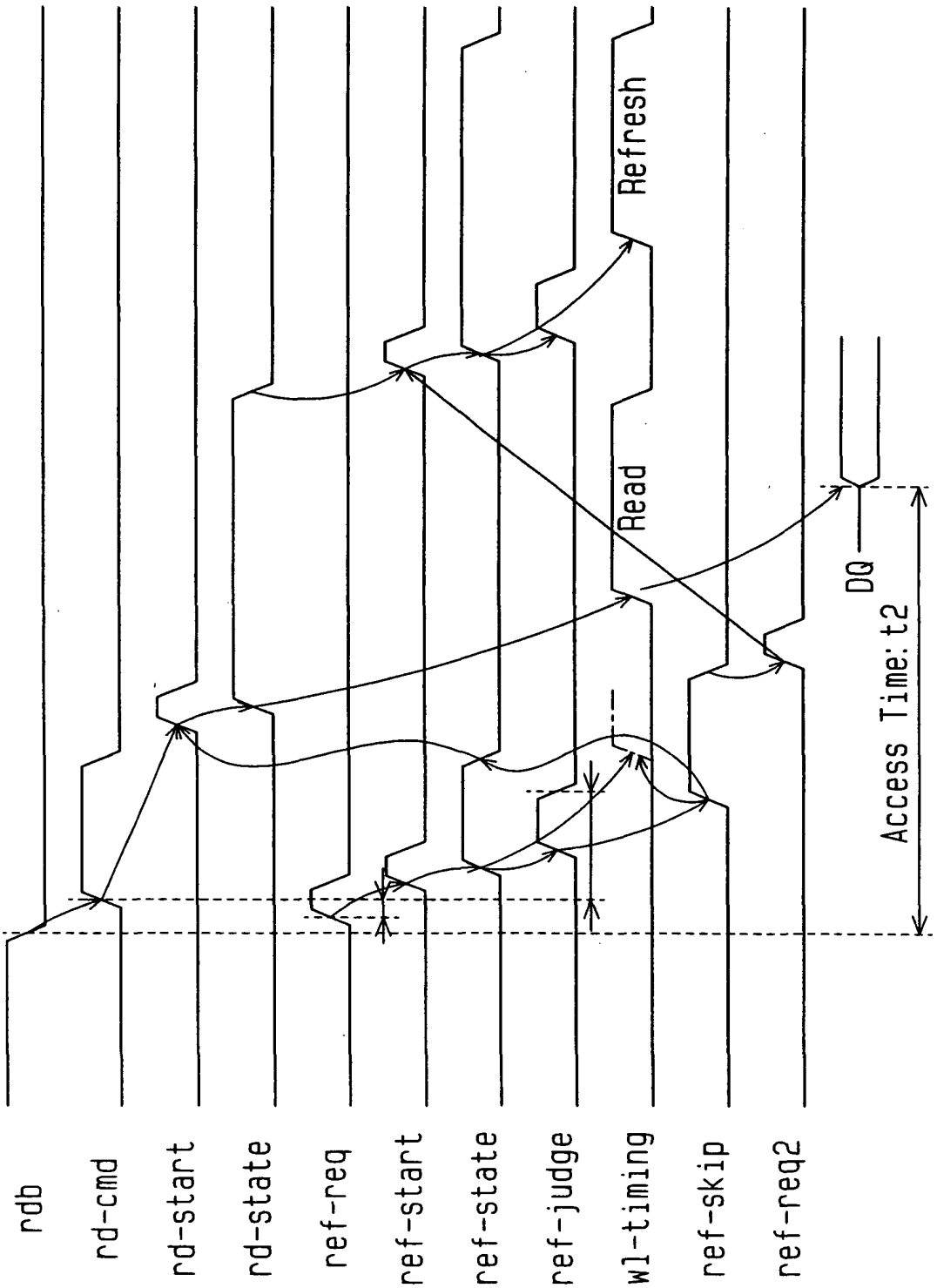

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Fig 12

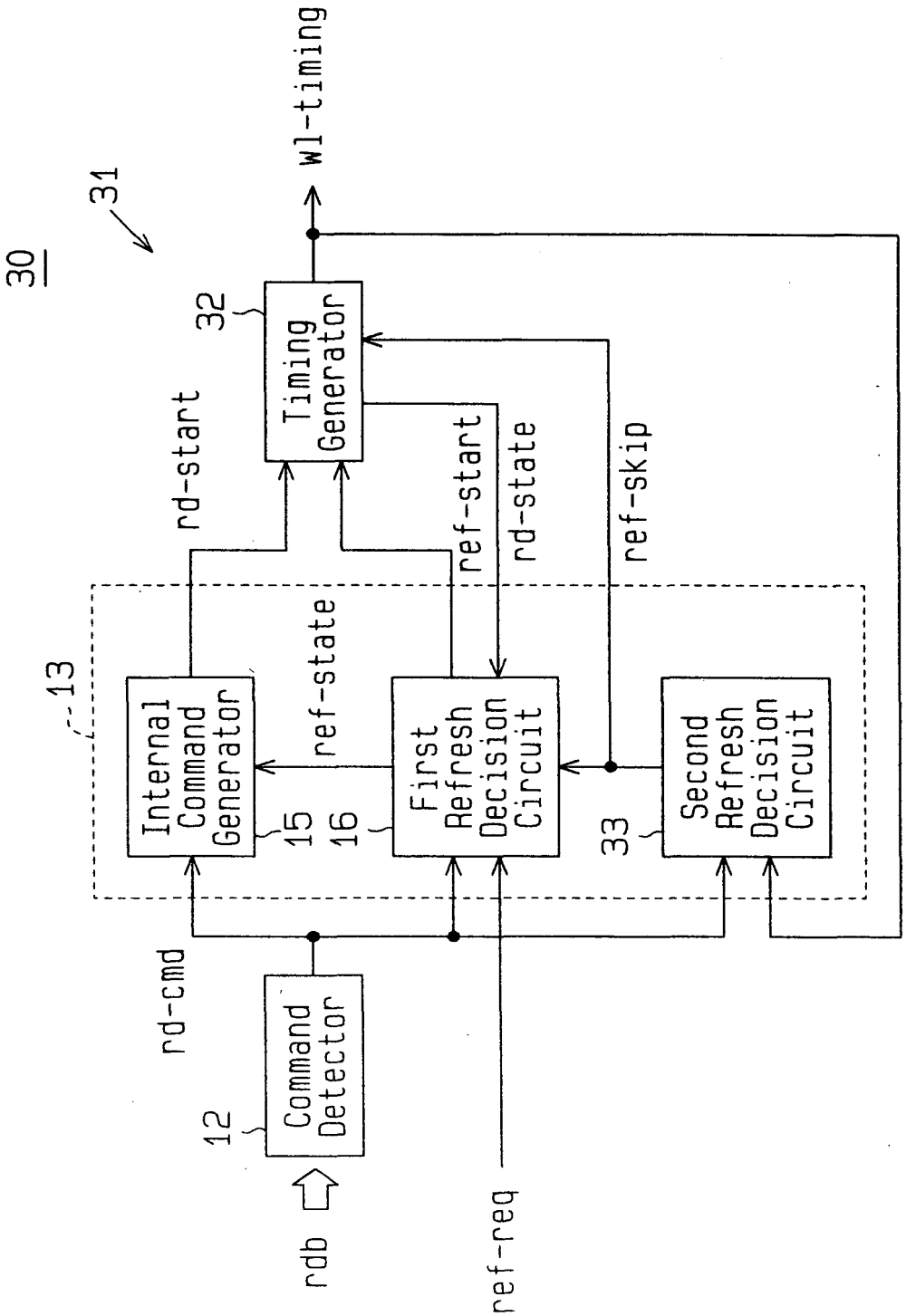

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Fig.13

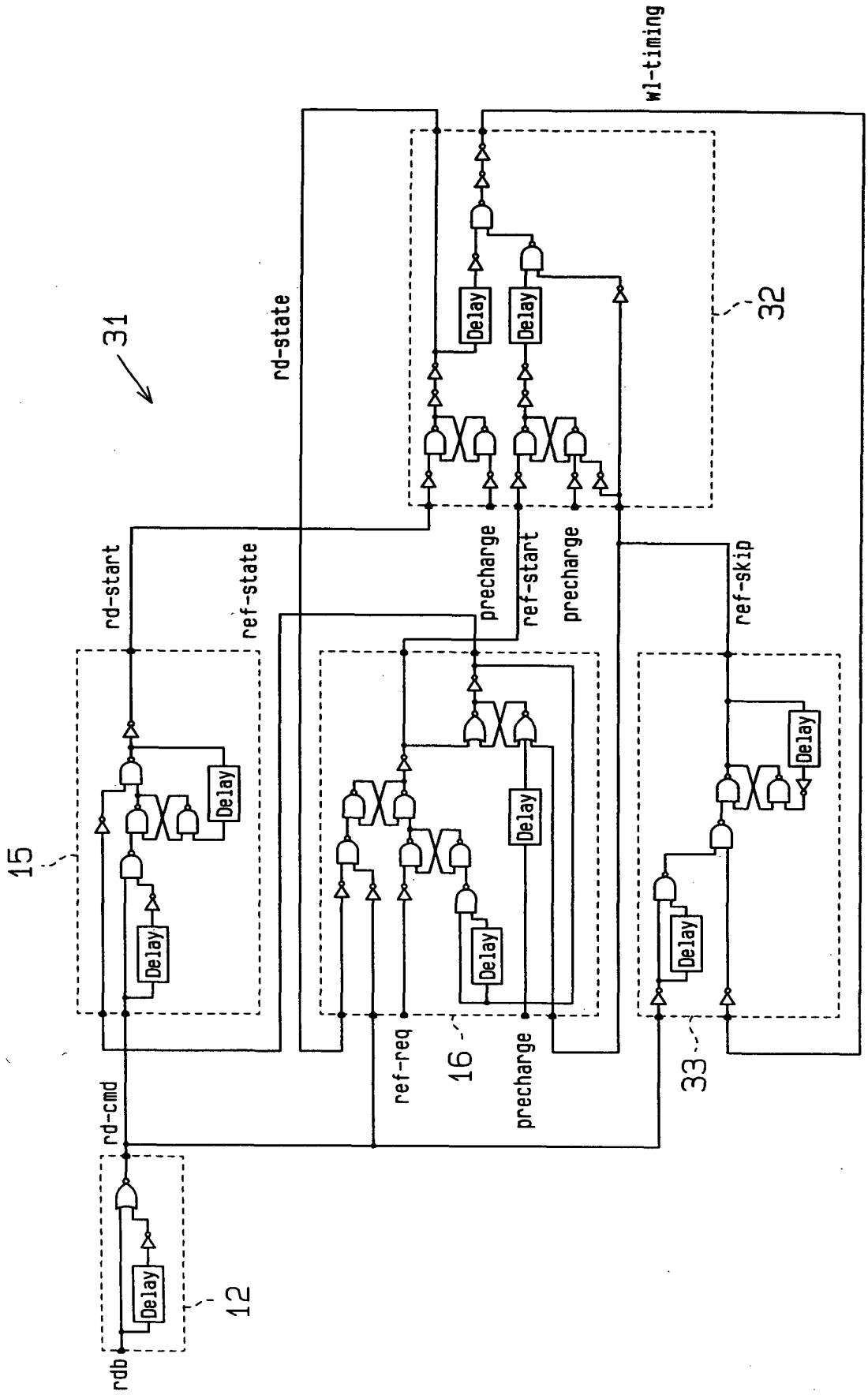

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Fig.14

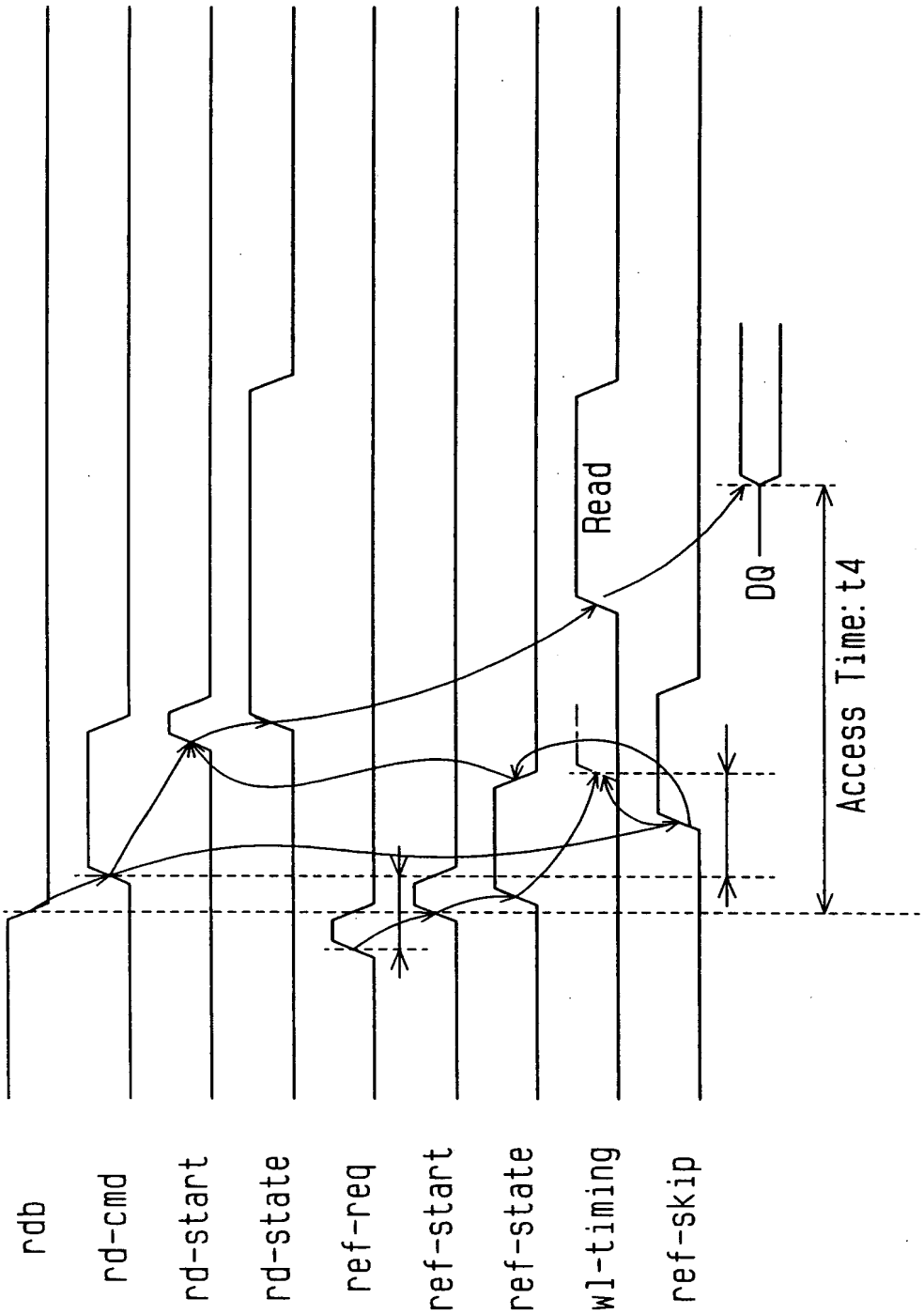

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Fig.15

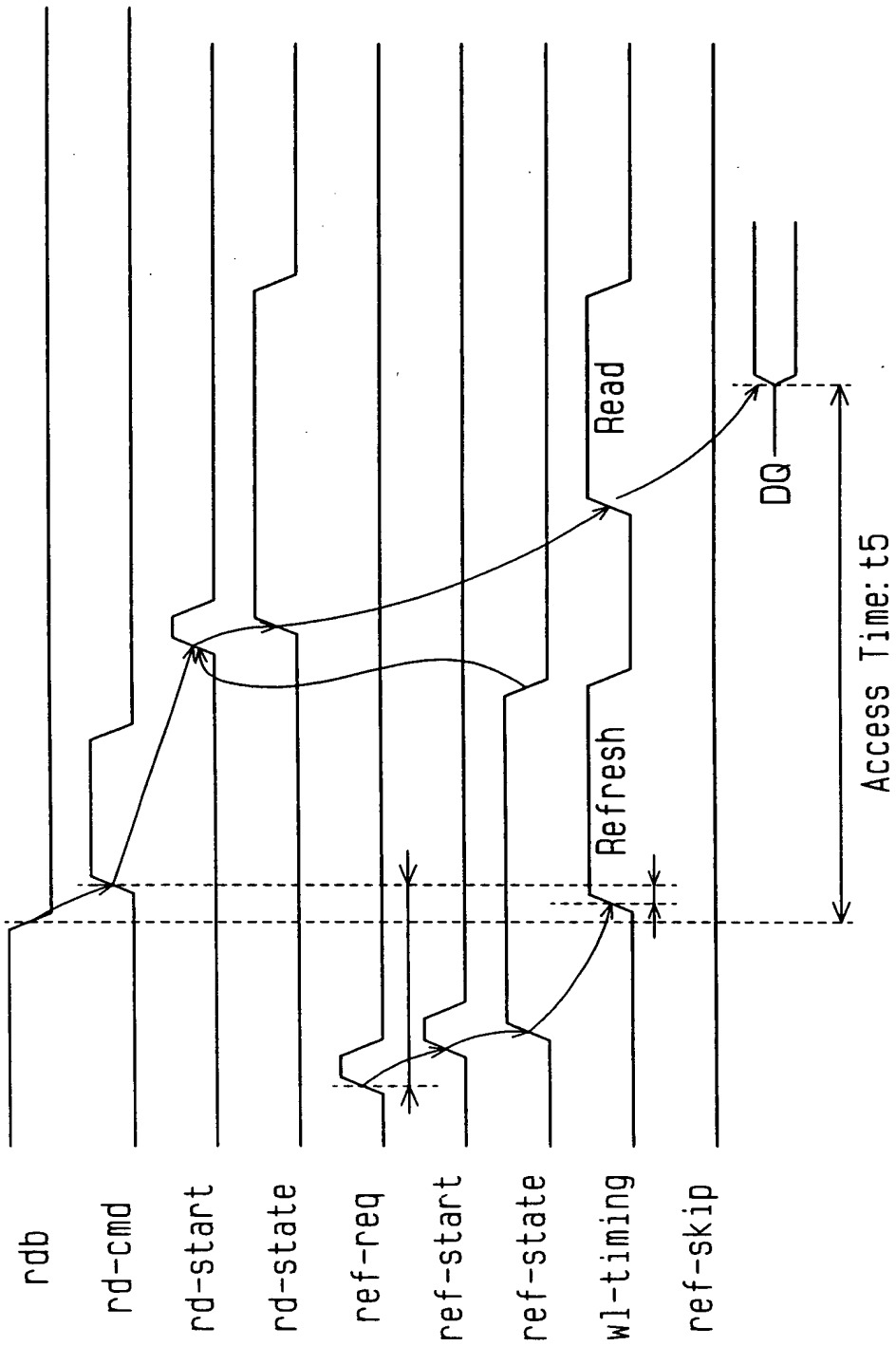

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Fig.16

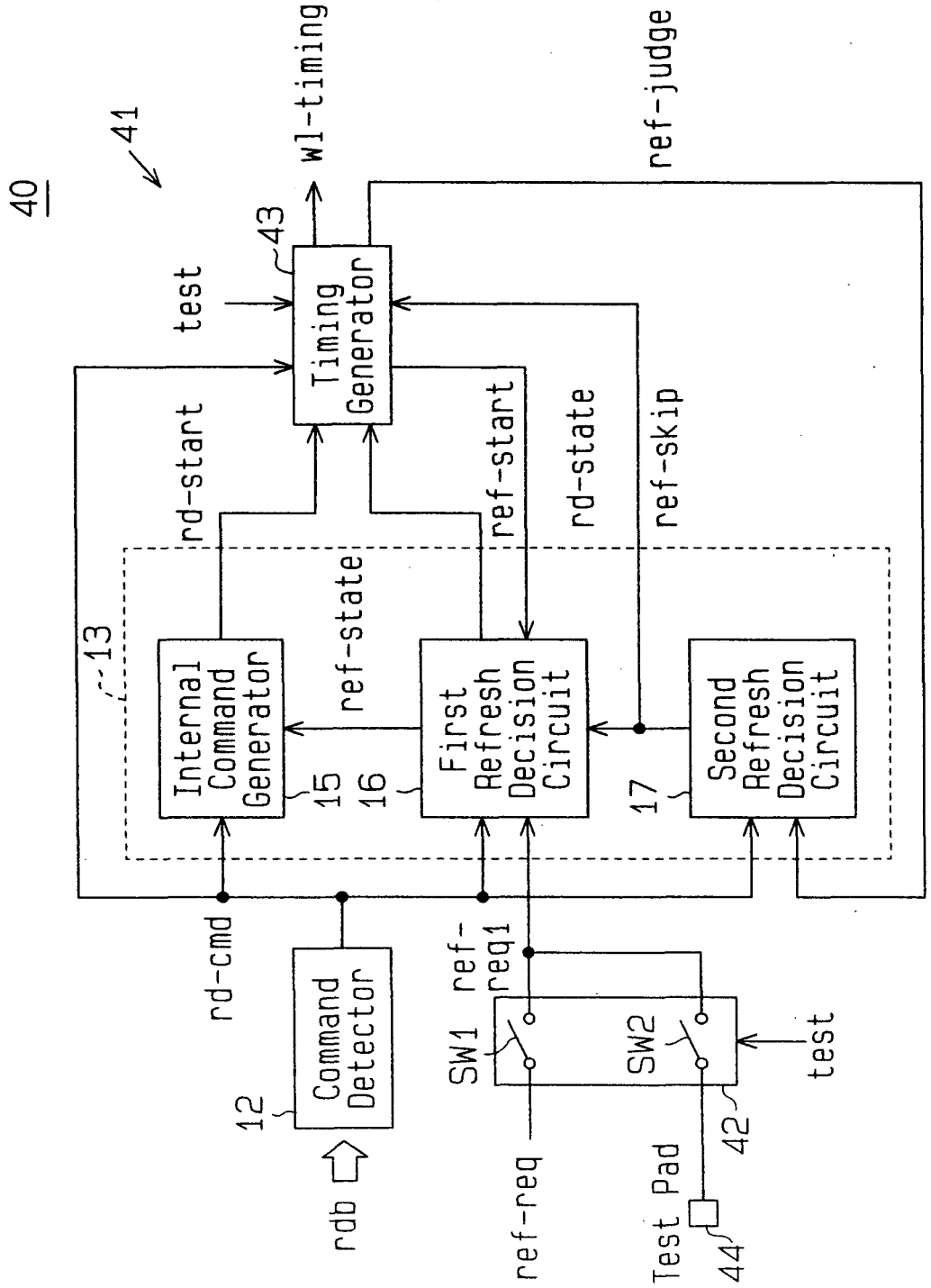

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Fig.17

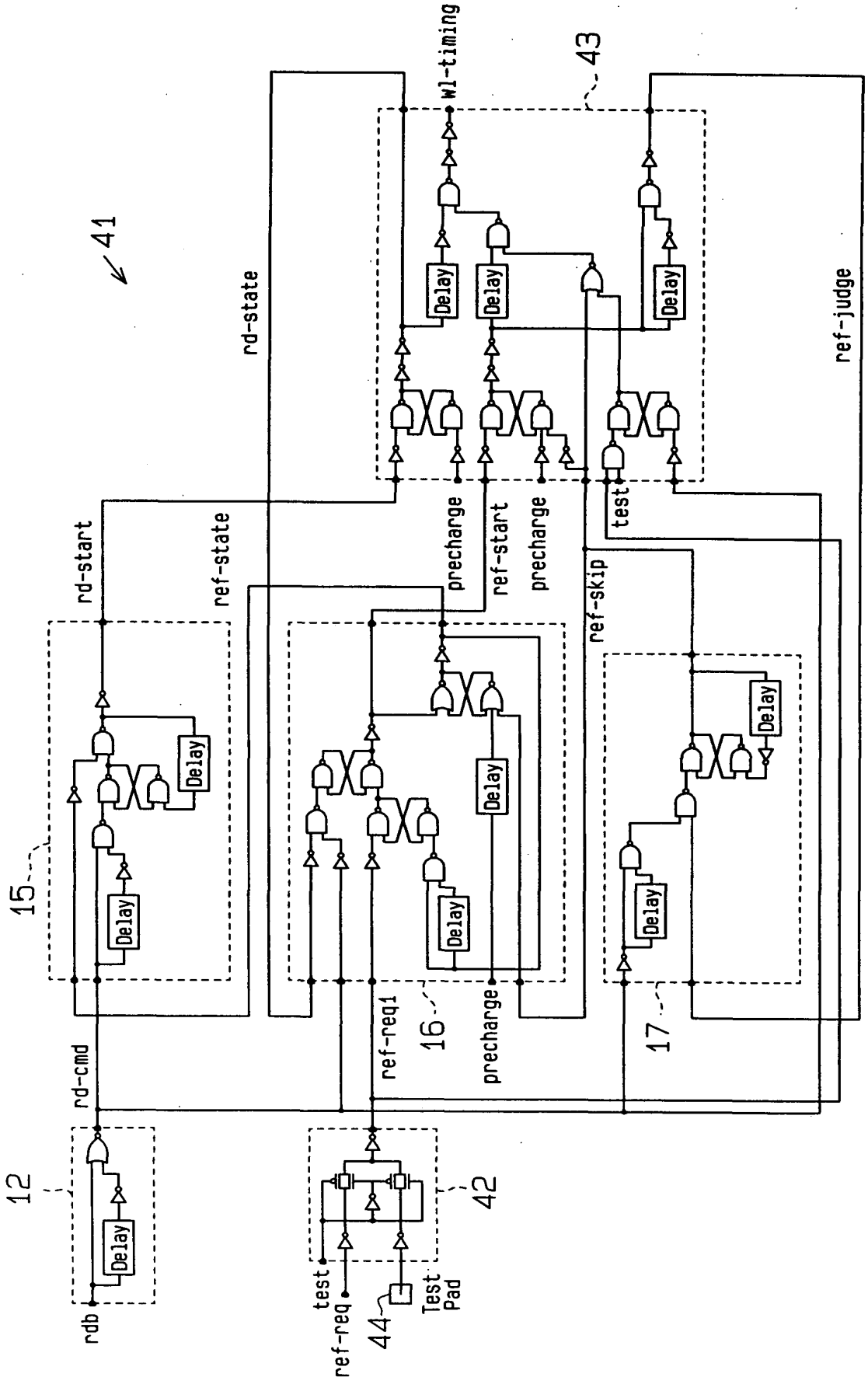

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Fig.18

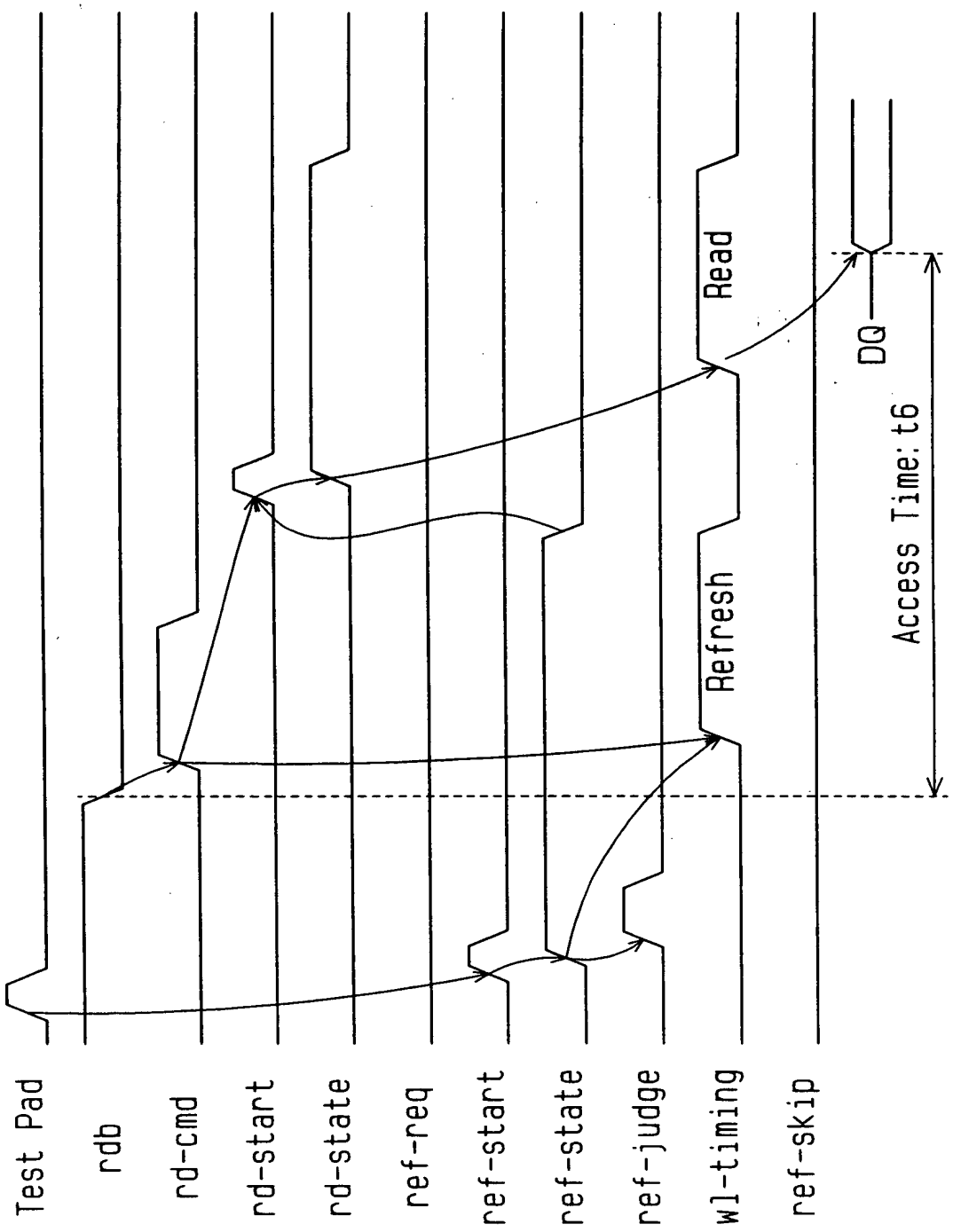

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Fig.19

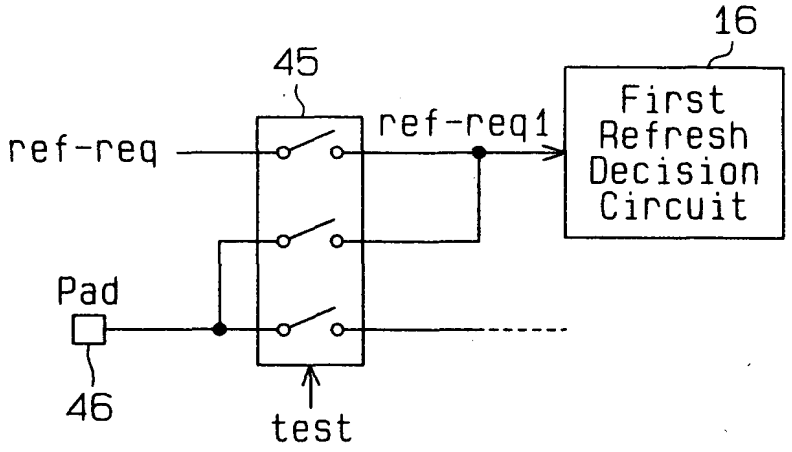

Fig.20

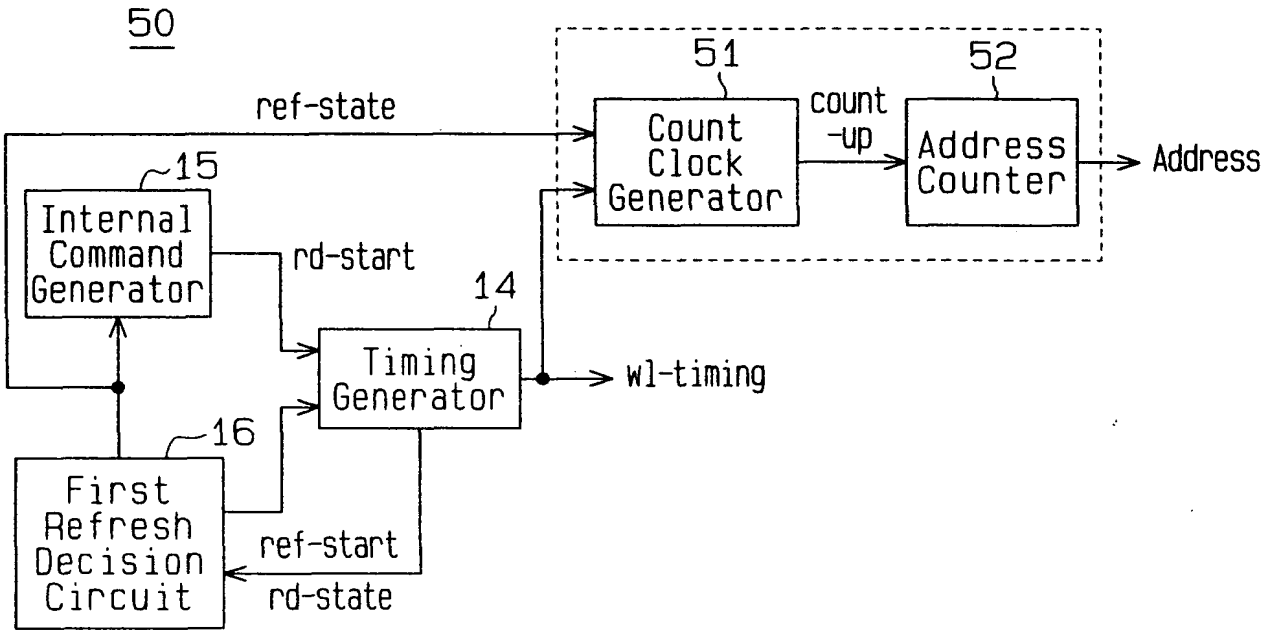
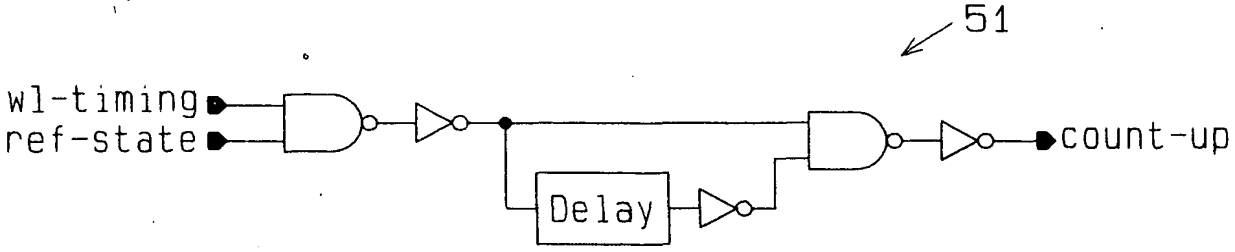
Fig.21